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1 [An architecture for automatic relational database sytem conversion](#)

Ben Shneiderman, Glenn Thomas

June 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 2

Full text available:  [pdf\(1.59 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Changes in requirements for database systems necessitate schema restructuring, database translation, and application or query program conversion. An alternative to the lengthy manual revision process is proposed by offering a set of 15 transformations keyed to the relational model of data and the relational algebra. Motivations, examples, and detailed descriptions are provided.

Keywords: automatic conversion, database systems, relational model, transformations

2 [A family of test adequacy criteria for database-driven applications](#)

Gregory M. Kapfhammer, Mary Lou Soffa

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5

Full text available:  [pdf\(264.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Although a software application always executes within a particular environment, current testing methods have largely ignored these environmental factors. Many applications execute in an environment that contains a database. In this paper, we propose a family of test adequacy criteria that can be used to assess the quality of test suites for database-driven applications. Our test adequacy criteria use dataflow information that is associated with the entities in a relational database. Furthermore ...

Keywords: database-driven applications, test adequacy criteria

3 [The model-assisted global query system for multiple databases in distributed enterprises](#)

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Full text available:  [pdf\(697.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

4 A framework for testing database applications

David Chays, Saikat Dan, Phyllis G. Frankl, Filippos I. Vokolos, Elaine J. Weber

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 25 Issue 5

Full text available:  pdf(557.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Database systems play an important role in nearly every modern organization, yet relatively little research effort has focused on how to test them. This paper discusses issues arising in testing database systems and presents an approach to testing database applications. In testing such applications, the state of the database before and after the user's operation plays an important role, along with the user's input and the system output. A tool for populating the database with meaningful data ...

Keywords: database, software testing, test data

5 Language features for flexible handling of exceptions in information systems

Alexander Borgida

December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4

Full text available:  pdf(3.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An exception-handling facility suitable for languages used to implement database-intensive information systems is presented. Such a mechanism facilitates the development and maintenance of more flexible software systems by supporting the abstraction of details concerning special or abnormal occurrences. The type constraints imposed by the schema as well as various semantic integrity assertions are considered to be normalcy conditions, and the key contribution of this work is to allow except ...

6 Special section: Special issue on AI and Database research

Jonathan J. King

October 1983 **ACM SIGART Bulletin**, Issue 86

Full text available:  pdf(3.84 MB) Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

7 DATAPLEX: an access to heterogeneous distributed databases

Chin-Wan Chung

January 1990 **Communications of the ACM**, Volume 33 Issue 1

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Diverse database management systems are used in large organizations. The heterogeneous distributed database system (DDS) can provide a flexible integration of diverse databases for users and applications. This is because it allows for retrieval and update of distributed data under different data systems giving the illusion of accessing a single centralized database system.



Keywords: Prototype system

8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:

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[Publisher Site](#)


Additional Information: [full citation](#)

9 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available:

 [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)


The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 Using semantic values to facilitate interoperability among heterogeneous information systems

Edward Sciore, Michael Siegel, Arnon Rosenthal

June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available:

 [pdf\(2.68 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Large organizations need to exchange information among many separately developed systems. In order for this exchange to be useful, the individual systems must agree on the meaning of their exchanged data. That is, the organization must ensure semantic interoperability. This paper provides a theory of semantic values as a unit of exchange that facilitates semantic interoperability between heterogeneous information systems. We show how semantic values can ei ...

11 Automatic verification of database transaction safety

Tim Sheard, David Stemple

September 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 3

Full text available:

 [pdf\(3.34 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Maintaining the integrity of databases is one of the promises of database management systems. This includes assuring that integrity constraints are invariants of database transactions. This is very difficult to accomplish efficiently in the presence of complex constraints and large amounts of data. One way to minimize the amount of processing required to maintain database integrity over transaction processing is to prove at compile-time that transactions cannot, if run atomically, disobey i ...

12 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:

 [pdf\(7.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

13 Installation of a commercial database management system in a university environment

Pentti A. Honkanen

February 1983 **ACM SIGCSE Bulletin , Proceedings of the fourteenth SIGCSE technical symposium on Computer science education**, Volume 15 Issue 1

Full text available:  pdf(488.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper addresses the problem of using a commercial database management system (DBMS) in an academic environment for educational purposes. Prior to the decision to use a commercial DBMS, an instructional database IDBS [4] was used. The pros and cons of this decision are discussed. In addition, the problems of obtaining a commercial DBMS on an academic budget for instructional purposes, and of creating a reasonably realistic database are discussed. Finally, an evaluation of the initial qu ...

14 Semantics of query languages for network databases

Kazimierz Subieta

September 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 3

Full text available:  pdf(3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semantics determines the meaning of language constructs; hence it says much more than syntax does about implementing the language. The main purpose of this paper is a formal presentation of the meaning of basic language constructs employed in many database languages (sublanguages). Therefore, stylized query languages SSL (Sample Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in other query languages are collected. The semantics of SSL and J are ...

15 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available:  pdf(9.95 MB) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

16 A Formal System for Reasoning about Programs Accessing a Relational Database

Marco R. Casanova, Phillip A. Bernstein

July 1980 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2 Issue 3

Full text available:  pdf(1.77 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

A formal system for proving properties of programs accessing a database is introduced. Proving that a program preserves consistency of the database is one of the possible applications of the system. The formal system is a variant of dynamic logic and incorporates a data definition language (DDL) for describing relational databases and a data manipulation language (DML) whose programs access data in a database. The DDL is a many-sorted first-order language that accounts for data aggregations ...

17 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

18 Model management and structured modeling: the role of an information resource dictionary system

D. R. Dolk

June 1988 **Communications of the ACM**, Volume 31 Issue 6

Full text available:  pdf(1.73 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Models have historically occupied an ambiguous position within organizations. Management acceptance of management science and operations research models for decision-making has lagged far behind technical advances in these areas. Structured modeling has emerged as a unifying approach to the modeling process with potential to reduce this ambiguity. Structured modeling is primarily oriented to the individual, however. A way of incorporating structured modeling into the organizational framework ...

19 Federated database systems for managing distributed, heterogeneous, and autonomous databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

20 An experimental object-based sharing system for networked databases

Doug Fang, Shahram Ghandeharizadeh, Dennis McLeod

April 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 2

Full text available:  pdf(195.97 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An approach and mechanism for the transparent sharing of objects in an environment of interconnected (networked), autonomous database systems is presented. An experimental prototype system has been designed and implemented, and an analysis of its performance conducted. Previous approaches to sharing in this environment typically rely on the use of a global, integrated conceptual database schema; users and applications must pose queries at this new level of abstraction to access remote informatio ...

Keywords: Database system interoperability, Experimental prototype benchmarking, Object sharing

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